MULTIMEDIA UNIVERSITY

FINAL EXAMINATION

TRIMESTER 2, 2015/2016

DMM5018 – INTRODUCTION TO MULTIMEDIA

(For Diploma Students Only)

29 FEBRUARY 2016 2.30 p.m – 4.30 p.m (2 Hours)

INSTRUCTIONS TO STUDENT

- 1. This question paper consists of 9 (NINE) pages (excluding the cover page).
- 2. There are 2 (TWO) sections in this question paper.

Section A: Multiple Choice Question (40 marks) Section B: Structured Questions (60 marks)

- 3. For Section A, please mark all your answers in the OMR sheet provided.
- 4. For Section B, answer ALL questions. Please write all your answers in the Answer Booklet provided.

Section A: Multiple Choice Questions (40 marks)

Instruction: Please mark all your answers in the OMR sheet provided.

- Which of the following statements <u>BEST</u> describes interactive multimedia?
 - A. The information is displayed by a computer with a touchscreen or other input device.
 - B. The user can sit back and watch it just as they do a movie or the television.
 - C. The information is available on the Web, either the internet or a local area network.
 - D. The user has some control over what information is viewed and when it is viewed.

2.		When you provide a structure of linked elements through which the user can navigate, interactive multimedia becomes							
	A.	hypermedia	C.	passive					
	В.		D.	hyperactive					
3.	The following statements are TRUE about Virtual Reality EXCEPT:								
	A.		Modeling	Language (VRML) to create virtual					
	В.	It is made up of the dimensional space,	ousands o	f geometric objects plotted in two-					
	C.	C. It requires terrific computing horsepower to be realistic.							
	D.	It uses the basic multim	edia eleme	nts of imagery, sound, and animation.					
4.	one	refers to any ty	pe of appli	cation or presentation that involves more than phics, video, animation, and sound.					
	A.	An executable file		Multimedia					
	В.	Desktop Publishing	D.	Hypertext					

- 5. Which of the following statement is TRUE about Local Area Network?
 - A. It covers very large networks that cover an entire city.
 - B. It covers a broad area, like communication links that cross metropolitan, regional or national boundaries.
 - C. It is used for communications among various devices, such as telephones, fax machines and printers.
 - D. It covers a small physical area, like a home or a small group of buildings.

6. Figure 1.0 below shows the interface for one of the multimedia software.

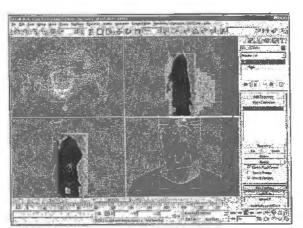


Figure 1.0: Interface for one of the multimedia software

Which of the following is **NOT** the feature of the software in Figure 1.0?

- A. Lathe and extrude
- B. Color and texture mapping
- C. Programming and scripting
- D. Multiple dimension windows
- 7. Figure 2.0 shows an image used one of the technique to minimize jaggies or blocky patterns.

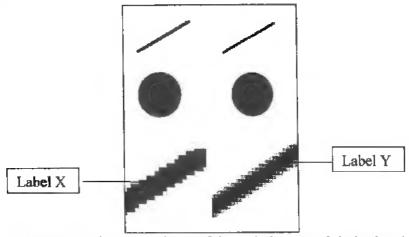


Figure 2.0: An image used one of the technique to minimize jaggies

Label X and label Y are BEST replaced with:

- A. Aliasing, Anti-aliasing
- B. Anti-aliasing, Aliasing
- C. Rendering, Casting
- D. Aliasing, Not Anti-Aliased

Continued.....

8.

8.	There	are three types of authorin	g tools w	hich are:	
	i.				
	ii.				
	iii.				
	iv.		_		
		and ii		C. i, ii and iv	
	B. i,	ii and iii		D. ii, iii and iv	
9.	Whice	h of the following team mriendly?	embers v	vill ensure that the proje	ect is visually pleasing
		Multimedia Designer	C.	Multimedia Programm	er
	В.	Video Specialist	D.	Writer	loi
		•			
10.	Whic	h of the following stateme	nts below	v are TRUE about the	guidelines of choosing
	font?	Consider legibility and rea	dokilie.		
		Use drop caps and initial		ccent	
		Surround headlines with y			
		Use of many fonts to grab			
	A.	i and ii		i, ii and iv	
	В.	i, ii, and iii	Ъ.	ii, iii and iv	
11.		h of the following example	s below a	ire categorized as san se	rif font type?
	i.				
		Verdana			
		Times New Roman			
	1V.	Courier New			
	Α.	i and ii	C.	ii and iii	
	B.	i and iii	D.	iii and iv	
12.	W/bic	th of the following statemen	······································	Tr about soulf fout-0	
12.	A.	Serif font has little decora	tion at the	e and of a letter stroke	
	B.	Serif font do not have dec			· A
	C.	Serif font has a stroke that			
	D.	Serif font is a font that word.	has an	uppercase letter in th	e middle of a
13.		space between lines of text	is called		
	A.	aliasing	C.	leading	
	В.	kerning	D.	warping	
					Continued
SII				3/9	

- 14. The following statements are TRUE about how vector-drawn images work EXCEPT:
 - A. A vector is a data matrix describing the individual dots of an image.
 - B. Cartesian coordinates are numbers that describe a point in two- or three dimensional space as the intersection of the X, Y, and Z axes.
 - C. A vector is a line that is described by the location of its two endpoints.
 - D. Vector drawing makes use of Cartesian coordinates.

15.	Image C	in	Figure	3.0	below	is	referring	to	 process	in	3D	modeling
	eoftware											



Figure 3.0: Image C

- A. lathing C. modeling B. Extruding D. shaping
- 16. The following statements are TRUE about PICT image file format EXCEPT:
 - A. PICT is a complicated and versatile format developed by Apple.
 - B. PICT is the most commonly image file format used in Macintosh.
 - C. In a PICT file, both vector-drawn objects and bitmaps can reside side by side.
 - D. Each image application on the Macintosh cannot import or export PICT files.
- 17. Graphic artists use vector-drawn objects when designing printed media because:
 - A. they can be viewed directly in web browsers.
 - B. they can be scaled to print at any size.
 - C. they can be converted across platforms more easily.
 - D. they can contain more subtle variations in shading than bitmap graphics.
- 18. When using sound elements in your multimedia project, which of the following statements is NOT true?
 - A. Always provide a toggle switch to disable the sound.
 - B. Choose music that fits the atmosphere you wish to create.
 - C. Use as many special effects as you can.
 - D. Always test a project with potential users.

19.	The type:	software that allows the cre faces is known as	eation	of multiple font designs	from two existing					
	A.	Opentype	C.	Blender						
	В.	Fontographer	D.	Maya						
20.	Which of the following statements describes a successful graphic approach?									
	A.	Applying a variety of decora								
	B. C.	Employing at least five diffe Creating background images								
	D.	Using simple screens with lo								
21.	Map	ping the structure of a project	should	be done early in the	phase.					
	A,	planning	C.							
	В.	implementation	D.	closing						
22.	The following file formats are specifically designed to contain animations EXCEPT:									
	A.	.max	C.	.fla						
	В.	.gif	D.	.psd						
23.	animation is a technique in which a series of progressively different									
	graphics is used on each frame of movie film.									
	A.	Phi	C.	Beta						
	В.	Cel	D.	Path						
24.	What is the process of creating a series of frames between keyframes in animation software?									
	A.	Tracking	C.	Tweening						
	В.	Authoring	D.	Kinematics						
25.	The file format that uses a shorthand representation of musical notes and durations stored in numeric form is:									
	A.	AIFF	C.	MIDI						
	В.	MPS	D.	Quick Time						
26.	Wha	at is the main difference between	en 2-ïn	and 3-D animation?						
	A.	The number of tweens.	· · · ·	and 5-15 miniation:						
	В.	The number of keyframes.								
	C.	The number of frames per se	cond							
	D.	The number of axes on which		notion occurs.						

27.	The about	ile size of a three-second recoding sampled at 22 kHz, 16-bit stereo would be					
		1,056 bytes 2,112 bytes	C. D.	264,000 bytes 1,056,000 bytes			
28.	The p		nber of sa C.	mple slices you take in a second is called: quantization			
	B.	buffering	D.	•			
29.	Audi	o recorded at 44.1 kHz, 16		is considered:			
	A.			AM quality			
	В.	voice-quality	D.	CD quality			
30.		ch of the following sound tal audio file?	ile charac	teristics does NOT directly affect the size of a			
	A.	1		Tracks (stereo vs.mono)			
	В.	Sound resolution	D.	Volume			
31.				ile streams audio and video together.			
	A.	ACC		WAV			
	В.	MP4	D.	AVI			
32.		following examples are no		iting (NLE) software EXCEPT:			
	A.			Avid's Media Composer			
	В.	Apple's Final Cut	D.	Apple's iMovie			
33.	Whi A,			Γ an analog video transfer method?			
	В.	Composite	D.	Component S-Video			
	D,	Composite	Б.	G-Viceo			
34.		computer?	nedia elem	nent places the highest performance demand on			
	A.	animation	C.	video			
	В.	image	D.	sound			
35.	When you type a URL into a web browser, your computer connects to a(n) to obtain the requested web page.						
	A,	client	_д е. С.	database			
	B.	server	D.	domain			
				Continued			
	_						

36. Figure 4.0 below shows one of the analog video signal.

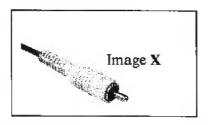


Figure 4.0: One of analog video signal

	Imag	e X is referring to	vid	leo.
	A. B.	separate composite	C. D.	component super
37.	Whice A. B. C. D.	th of the following is FALS Adobe Flash provides and The Flash plug-in for brow Make simple animations of Play animation using the	mation or wsers offe of small in	the web. ers animation and interaction. mages with GIF89a.
38.	When into A. B.	n a stream of data is sent ov by the Transm information message	er the Indission Co C. D.	ternet by your computer, it is first broken down ntrol Protocol (TCP). packet daemon
39.	Which work A. B. C. D.	within the constraints of b Compress data into ZIP fi Design alternate low-ban accommodate all users. Allow users to download	andwidth le before dwidth and data repe ethods th	transmitting. Ind high-bandwidth navigation paths to attedly. In attached to be transferred and
40.	the i Wide A. B.	is a software appli nterface for downloading web. Interface Browser	cation tha and view C. D.	at run on a user's personal computer to provide ing web pages and multimedia on the World Paging HTML

Section B: Structured Questions (60 marks)

Instruction: Please write all your answers in the Answer Booklet provided.

Question 1 (15 Marks)

- a) List FIVE benefits of incorporating multimedia in a software. (5 marks)
- b) Discuss **THREE** features of authoring tools. (6 marks)
- c) State FOUR intangible elements needed in developing a multimedia project.

(4 marks)

Question 2 (15 Marks)

- a) Define navigation map. (2 marks)
- b) Discuss FOUR types of organizing structures as listed below:

i.	Linear	(2 marks)
ii.	Hierarchical	(2 marks)
iii.	Non-linear	(2 marks)
iv.	Composite	(2 marks)

c) Figure 1.0 shows the illustration of measurement type. (5 marks)

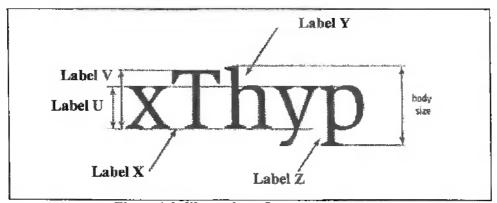


Figure 1.0: Illustration of measurement type

Gives the name for Label U, V, X, Y and Z below.

i.	Label V :	
ii.	Label U:	
iii.	Label X:	
iv.	Label Y:	
**	Label 7 v	

Question 3 (15 Marks)

a) Define the following terms:

i. Keyframes(2 marks)ii. Kinematics(2 marks)iii. Inverse kinematics(2 marks)

- b) Name and describe THREE basic sound editing operations that most multimedia producers use. (6 marks)
- c) State THREE sampling frequencies that are most frequently used for CD quality.

 (3 marks)

Ouestion 4 (15 Marks)

a) Define analog video. (1 mark)

- b) Explain THREE analog video broadcast standards commonly used around the world. (6 marks)
- c) Explain FOUR tips for creating titles to be used in video. (8 marks)